AMENDMENTS TO THE CLAIMS

Please amend the claims as they currently stand so that they are in accord with the following listing of the claims:

1. (Currently Amended) A ground plane beam antenna for transmitting and/or receiving radio frequency (RF) signals, said antenna comprising:

at least one parasitic reflector element having a first end and a second end;

at least one parasitic director element having a first end and a second end;

a driven element positioned co-linearly with and between said at least one reflector element and said at least one director element; and

an electrically conductive ground plane being electrically connected to said at least one reflector element and said at least one director element at said second ends, and being electrically isolated from said driven element, the ground plane comprising a first electrically conductive sheet having a width of about ¼ wavelength of a tuned radio frequency.

- 2. (Original) The antenna of claim 1 wherein said driven element comprises at least two radiative members each having a first end and a second end, and wherein said second ends of said radiative members are electrically connected at an apex point and are each disposed outwardly away from said apex point at an acute angle relative to and on a first side of an imaginary plane intersecting said apex point.
- 3. (Original) The antenna of claim 1 further comprising a dielectric material serving to mechanically connect, at least in part, said driven element to said ground plane while electrically insulating said driven element from said ground plane.
- 4. (Currently Amended) The antenna of claim 3 further comprising an electrical conductor electrically connected to said driven element at [[said]] an apex point at which said at least two radiative elements are electrically connected, said electrical

conductor [[and]] extending away from said apex point toward a ground plane side of said antenna through said dielectric material to allow connection to a transmission line for interfacing said driven element to a radio frequency transmitter and/or receiver.

- 5. (Original) The antenna of claim 1 further comprising an electrical connector to allow connection of said driven element and said ground plane to a transmission line.
- 6. (Currently Amended) The antenna of claim 2 wherein said ground plane comprises a substantially rectangular, first electrically conductive sheet having a width of about ¼ wavelength of a tuned radio frequency and being positioned substantially parallel to said imaginary plane.
- 7. (Currently Amended) The antenna of claim [[6]] 1 wherein said ground plane further comprises substantially rectangular second and third electrically conductive sheets, each having a width of about 1/4 wavelength of said tuned radio frequency, each being substantially the same length as said first conductive sheet, said second conductive sheet having a first lengthwise edge that is mechanically and electrically connected to a first lengthwise edge of said first conductive sheet and forming an angle with respect to said first conductive sheet, and said third conductive sheet having a first lengthwise edge that is mechanically and electrically connected to a second lengthwise edge of said first conductive sheet and forming an angle with respect to said first conductive sheet.
- 8. (Original) The antenna of claim 7 wherein one-half the width of said first conductive sheet plus the full width of said second conductive sheet or said third conductive sheet is at least one-quarter of a wavelength.
- 9. (Original) The antenna of claim 2 wherein each of said radiative members are substantially linear and have a physical length determined by a pre-defined radio frequency.
- 10. (Original) The antenna of claim 1 wherein said reflector element and said at least one director elements are substantially linear.

- 11. (Original) The antenna of claim 2 wherein said acute angle between each of said radiative members and said ground plane is between 1 degree and 89 degrees.
- 12. (Original)The antenna of claim 1 further comprising a reflector plate being positioned at a reflector element end of said ground plane, being substantially perpendicular to said ground plane, and being mechanically and electrically connected to said ground plane.
- 13. (Original) The antenna of claim 2 wherein said radiative members are equally spaced in angle circumferentially around 360 degrees.
- 14. (Original) The antenna of claim 7 wherein said angle is between zero degrees and 180 degrees.
- 15. (Currently Amended) A method to construct a ground plane beam antenna for transmitting and/or receiving radio frequency (RF) signals, said method comprising:

generating a driven element that is tuned to at least one predetermined radio frequency;

generating at least one linear, parasitic reflector element having a first end and a second end and having an initial length based on, at least in part, said tuned driven element;

generating at least one linear, parasitic director element having a first end and a second end and having an initial length based on, at least in part, said tuned driven element;

positioning said driven element co-linearly with and between said at least one reflector element and said at least one director element;

generating an electrically conductive ground plane; the ground plane comprising a first electrically conductive sheet having a width of about ¼ wavelength of at least one predetermined radio frequency, and

electrically connecting said ground plane to said second ends of said reflector element and said at least one director element and keeping said ground plane electrically isolated from said driven element.

- 16. (Original) The method of claim 15 wherein said driven element comprises at least two radiative members each having a first end and a second end and wherein said second ends of said radiative members are electrically and mechanically connected at an apex point such that each radiative member is disposed outwardly away from said apex point at an acute angle relative to and on a first side of an imaginary plane intersecting said apex point.
- 17. (Original) The method of claim 15 further comprising adjusting said initial lengths of at least one of said at least one reflector element, said driven element, and said at least one director element based on a diameter of at least one of said elements.
- 18. (Original) The method of claim 15 further comprising adjusting said initial lengths of at least one of said at least one reflector element, said at least one director element, and said driven element based on an analysis of electro-magnetic interactions between said elements.
- 19. (Original) The method of claim 16 wherein generating said tuned driven element comprises cutting each of said radiative members to a physical length corresponding to said at least one predetermined radio frequency.
- 20. (Original) The method of claim 16 further comprising mechanically connecting said driven element to said ground plane using at least a dielectric material to electrically insulate said driven element from said ground plane.
- 21. (Original) The method of claim 20 further comprising connecting an electrical conductor to said driven element at said apex point such that said electrical conductor extends away from said apex point toward a ground plane side of said antenna and through said dielectric material to allow connection to a transmission line for interfacing said driven element to a radio frequency transmitter and/or receiver.

- 22. (Original) The method of claim 15 further comprising connecting an electrical connector to said driven element and said ground plane to allow connection of said antenna to a transmission line.
- 23. (Currently Amended) The method of claim [[16]] 15 wherein said ground plane comprises a substantially rectangular, first electrically conductive sheet having a width of about 1/4 wavelength of said at least one predetermined radio frequency and being substantially parallel to said imaginary plane.
- 24. (Original) The method of claim 23 wherein said ground plane further comprises substantially rectangular second and third electrically conductive sheets, each having a width of about ¼ wavelength of said at least one predetermined radio frequency, each being substantially the same length as said first conductive sheet, said second conductive sheet having a first lengthwise edge that is mechanically and electrically connected to a first lengthwise edge of said first conductive sheet and forming an angle with respect to said first conductive sheet, and said third conductive sheet having a first lengthwise edge that is mechanically and electrically connected to a second lengthwise edge of said first conductive sheet and forming an angle with respect to said first conductive sheet.
- 25. (Original) The method of claim 24 wherein one-half the width of said first conductive sheet plus the full width of said second conductive sheet or said third conductive sheet is at least one-quarter of a wavelength.
- 26. (Original) The method of claim 16 wherein said at least one predetermined radio frequency is substantially the same for each of said radiative members.
- 27. (Original) The method of claim 16 wherein said at least one predetermined radio frequency is substantially different for each of said radiative members.
- 28. (Original) The method of claim 16 wherein an angle between each of said radiative members and said ground plane is between 1 degree and 89 degrees.

29. (Original) The method of claim 15 further comprising positioning a reflector plate at a reflector element end of said ground plane and substantially perpendicular to said ground plane, and being mechanically and electrically connected to said ground plane.

- 30. (Original) The method of claim 16 wherein said radiative members are equally spaced in angle circumferentially around 360 degrees.
- 31. (Original) The method of claim 15 wherein a first spacing between a first odd numbered director element D_{odd} of said at least one director element and an adjacent even numbered director element D_{odd-1} of said at least one director element is greater than a second spacing between said even numbered director element D_{odd-1} and an adjacent second odd numbered director element D_{odd-2} of said at least one director element.
- 32. (Original) The method of claim 15 wherein a first difference in length between a first odd numbered director element D_{odd} of said at least one director element and an adjacent even numbered director element D_{odd-1} of said at least one director element is less than one-half a second difference in length between a second odd numbered director element D_{odd-2} of said at least one director element and said adjacent even numbered director element D_{odd-1}.
- 33. (Original) The method of claim 15 wherein a first linear spacing between a first odd numbered director element D_{odd} of said at least one director element and an adjacent even numbered director element D_{odd-1} of said at least one director element increases as D_{odd} is further in linear distance from said driven element.
- 34. (Original) The method of claim 33 wherein a second linear spacing between a second odd numbered director element D_{odd-2} of said at least one director element and said adjacent even numbered director element D_{odd-1} increases as D_{odd-2} is further in linear distance from said driven element.
- 35. (Original) The method of claim 15 wherein a length of an odd numbered director element D_{odd} of said at least one director element is greater than a length of a first

adjacent even numbered director element $D_{\text{odd-1}}$ of said at least one director element, and a length of a second adjacent even numbered director element $D_{\text{odd+1}}$ of said at least one director element is less than said length of said first adjacent even numbered director element $D_{\text{odd-1}}$.

36.-53. (Cancelled)